<110> FUJI PHOTO FILM B.V.

<120> Oil-in-water emulsions stabilised with recombinant collagen-like material

<130> OLIJVE

<140> US09/602,45

<141> 2000-06-23

<150> EP 99202047.9

<151> 1999-06-24

<160> 25

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<223> HLP-PA-FW

<400> 1
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<210> 2

<211> 108

<212> DNA

<213> Artificial Sequence

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<223> OVL-PA-FW

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cctggtaacc aaggacagcc cggtaacaag ggttctccag gtaatcca 108

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<211> 110

<212> DNA

<213> Artificial Sequence

<220>

<223> OVL-PA-RV

<400> 3
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ccaggttgac cttcgtttcc tggttgacct ggattacctg gagaaccctt 110

<210> 4

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> HLP-PA-RV

<400> 4
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<210> 5

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> HLP-PB-FW

<400> 5
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<210> 6

<211> 115

<212> DNA

<213> Artificial Sequence

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<223> OVL-PB-FW

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<210> 7

<211> 108

<212> DNA

<213> Artificial Sequence

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<223> OVL-PB-RV

<400> 7
gcgtctgcag tacgaattct attagccacc ggctggaccc tggtttcctg gtttaccttg 60
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<210> 8

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> HLP-PB-RV

<400> 8
gcgtctgcag tacgaattct attagc 26

<210> 9

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> HLP-PA-FW

<400> 9
gcgctcgaga aaagagaggc tgaagc 26

<210> 10

<211> 111

<212> DNA

<213> Artificial Sequence

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<223> OVL-NA-FW

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<223> OVL-N1A-RV

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<210> 12

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> HLP-N1A-RV

<400> 12
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<210> 13

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> HLP-N1B-FW

<400> 13
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<210> 14

<211> 107

<212> DNA

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<210> 15

<211> 108

<212> DNA

<213> Artificial Sequence

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<223> OVL-N1B-RV

<400> 15
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<210> 16

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> HLP-PB-RV

<400> 16
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<210> 17

<211> 106

<212> DNA

<213> Artificial Sequence

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<223> OVL-N2A-RV

<400> 17
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aaccaggcca gccaaggtaa cctgggtaac caggaatacc gaagac 106

<210> 18

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> HLP-N2A-RV

<400> 18
catagatacc agggtaacca aatggtccca 30

<210> 19

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> HLP-N2B-FW

<400> 19
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<210> 20

<211> 116

<212> DNA

<213> Artificial Sequence

<220>

<223> OVL-N2B-FW

<400> 20
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<210> 21

<211> 117

<212> DNA

<213> Artificial Sequence

<220>

<223> OVL-N2B-RV

<400> 21
gcgtctgcag tacgaattct attagccacc ggctggacca tcgtgaccgt gatgtccgtg 60

gtgaccgggc ttacccttgt ctcctggcat accaggcata cctggcatac cagggaa 117

<210> 22

<211> 599

<212> PRT

<213> Artificial Sequence

<220>

<223> Protein consisting of two identical nonpolar and four polar modules;N1N1P4

<400> 22

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Gly Pro Pro Gly Val Pro Gly Phe Ile Gly Phe Pro Gly Leu Pro Gly
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Trp Pro Gly Val Phe Gly Ile Pro Gly Tyr Pro Gly Tyr Leu Gly Trp
             20                  25                  30

Pro Gly Trp Pro Gly Phe Pro Gly Ile Phe Gly Tyr Pro Gly Tyr Pro
         35                  40                  45

Gly Trp Pro Gly Phe Pro Gly Trp Pro Gly Phe Ile Gly Leu Pro Gly
     50                  55                  60

Tyr Leu Gly Pro Trp Gly Phe Val Gly Trp Pro Gly Trp Leu Gly Tyr
 65                  70                  75                  80


Pro Gly Leu Phe Gly Leu Pro Gly Tyr Pro Gly His Glu Gly Ile Pro
                 85                  90                  95

Gly Asp His Gly Pro Ala Gly Val Pro Gly Phe Ile Gly Phe Pro Gly
            100                 105                 110

Leu Pro Gly Trp Pro Gly Val Phe Gly Ile Pro Gly Tyr Pro Gly Tyr
        115                 120                 125

Leu Gly Trp Pro Gly Trp Pro Gly Phe Pro Gly Ile Phe Gly Tyr Pro
    130                 135                 140

Gly Tyr Pro Gly Trp Pro Gly Phe Pro Gly Trp Pro Gly Phe Ile Gly
145                 150                 155                 160

Leu Pro Gly Tyr Leu Gly Pro Trp Gly Phe Val Gly Trp Pro Gly Trp
                165                 170                 175

Leu Gly Tyr Pro Gly Leu Phe Gly Leu Pro Gly Tyr Pro Gly His Glu
            180                 185                 190

Gly Ile Pro Gly Asp His Gly Pro Ala Gly Glu Pro Gly Asn Pro Gly
        195                 200                 205

Ser Pro Gly Asn Gln Gly Gln Pro Gly Asn Lys Gly Ser Pro Gly Asn
    210                 215                 220
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Pro Gly Gln Pro Gly Asn Glu Gly Gln Pro Gly Gln Pro Gly Gln Asn
225 230 235 240

Gly Gln Pro Gly Glu Pro Gly Ser Asn Gly Pro Gln Gly Ser Gln Gly
245 250 255

Asn Pro Gly Lys Asn Gly Gln Pro Gly Ser Pro Gly Ser Gln Gly Ser
260 265 270

Pro Gly Asn Gln Gly Ser Pro Gly Gln Pro Gly Asn Pro Gly Gln Pro
275 280 285

Gly Glu Gln Gly Lys Pro Gly Asn Gln Gly Pro Ala Gly Glu Pro Gly
290 295 300

Asn Pro Gly Ser Pro Gly Asn Gln Gly Gln Pro Gly Asn Lys Gly Ser
305 310 315 320

Pro Gly Asn Pro Gly Gln Pro Gly Asn Glu Gly Gln Pro Gly Gln Pro
325 330 335

Gly Gln Asn Gly Gln Pro Gly Glu Pro Gly Ser Asn Gly Pro Gln Gly
340 345 350

Ser Gln Gly Asn Pro Gly Lys Asn Gly Gln Pro Gly Ser Pro Gly Ser
355 360 365

Gln Gly Ser Pro Gly Asn Gln Gly Ser Pro Gly Gln Pro Gly Asn Pro
370 375 380

Gly Gln Pro Gly Glu Gln Gly Lys Pro Gly Asn Gln Gly Pro Ala Gly
385 390 395 400

Glu Pro Gly Asn Pro Gly Ser Pro Gly Asn Gln Gly Gln Pro Gly Asn
405 410 415

Lys Gly Ser Pro Gly Asn Pro Gly Gln Pro Gly Asn Glu Gly Gln Pro
420 425 430

Gly Gln Pro Gly Gln Asn Gly Gln Pro Gly Glu Pro Gly Ser Asn Gly
435 440 445

Pro Gln Gly Ser Gln Gly Asn Pro Gly Lys Asn Gly Gln Pro Gly Ser
450 455 460

Pro Gly Ser Gln Gly Ser Pro Gly Asn Gln Gly Ser Pro Gly Gln Pro
465 470 475 480

Gly Asn Pro Gly Gln Pro Gly Glu Gln Gly Lys Pro Gly Asn Gln Gly
485 490 495

Pro Ala Gly Glu Pro Gly Asn Pro Gly Ser Pro Gly Asn Gln Gly Gln
500 505 510

Pro Gly Asn Lys Gly Ser Pro Gly Asn Pro Gly Gln Pro Gly Asn Glu
515 520 525

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Gly Gln Pro Gly Gln Pro Gly Gln Asn Gly Gln Pro Gly Glu Pro Gly
    530                 535                 540

Ser Asn Gly Pro Gln Gly Ser Gln Gly Asn Pro Gly Lys Asn Gly Gln
545                 550                 555                 560

Pro Gly Ser Pro Gly Ser Gln Gly Ser Pro Gly Asn Gln Gly Ser Pro
                565                 570                 575

Gly Gln Pro Gly Asn Pro Gly Gln Pro Gly Glu Gln Gly Lys Pro Gly
            580                 585                 590

Asn Gln Gly Pro Ala Gly Gly
        595
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<210> 23

<211> 599

<212> PRT

<213> Artificial Sequence

<220>

<223> Protein consisting of two different nonpolar and four polar modules; N1N2P4

<400> 23

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Gly Pro Pro Gly Val Pro Gly Phe Ile Gly Phe Pro Gly Leu Pro Gly
  1               5                  10                  15

Trp Pro Gly Val Phe Gly Ile Pro Gly Tyr Pro Gly Tyr Leu Gly Trp
            20                  25                  30
Pro Gly Trp Pro Gly Phe Pro Gly Ile Phe Gly Tyr Pro Gly Tyr Pro
         35                  40                  45

Gly Trp Pro Gly Phe Pro Gly Trp Pro Gly Phe Ile Gly Leu Pro Gly
     50                  55                  60

Tyr Leu Gly Pro Trp Gly Phe Val Gly Trp Pro Gly Trp Leu Gly Tyr
 65                  70                  75                  80

Pro Gly Leu Phe Gly Leu Pro Gly Tyr Pro Gly His Glu Gly Ile Pro
                85                  90                  95

Gly Asp His Gly Pro Ala Gly Val Pro Gly Phe Ile Gly Phe Pro Gly
            100                 105                 110

Leu Pro Gly Trp Pro Gly Val Phe Gly Ile Pro Gly Tyr Pro Gly Tyr
        115                 120                 125

Leu Gly Trp Pro Gly Trp Pro Gly Trp Pro Gly Pro Phe Gly Trp Leu
    130                 135                 140
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Gly Pro Phe Gly Tyr Pro Gly Ile Tyr Gly Trp Pro Gly Phe Leu Gly
145                 150                 155                 160

Tyr Pro Gly Ile Phe Gly Pro Trp Gly Pro Tyr Gly Phe Pro Gly Met
                165                 170                 175

Pro Gly Met Pro Gly Met Pro Gly Asp Lys Gly Lys Pro Gly His His
            180                 185                 190

Gly His His Gly His Asp Gly Pro Ala Gly Glu Pro Gly Asn Pro Gly
        195                 200                 205

Ser Pro Gly Asn Gln Gly Gln Pro Gly Asn Lys Gly Ser Pro Gly Asn
    210                 215                 220

Pro Gly Gln Pro Gly Asn Glu Gly Gln Pro Gly Gln Pro Gly Gln Asn
225                 230                 235                 240

Gly Gln Pro Gly Glu Pro Gly Ser Asn Gly Pro Gln Gly Ser Gln Gly
                245                 250                 255

Asn Pro Gly Lys Asn Gly Gln Pro Gly Ser Pro Gly Ser Gln Gly Ser
            260                 265                 270

Pro Gly Asn Gln Gly Ser Pro Gly Gln Pro Gly Asn Pro Gly Gln Pro
        275                 280                 285

Gly Glu Gln Gly Lys Pro Gly Asn Gln Gly Pro Ala Gly Glu Pro Gly
    290                 295                 300

Asn Pro Gly Ser Pro Gly Asn Gln Gly Gln Pro Gly Asn Lys Gly Ser
305                 310                 315                 320

Pro Gly Asn Pro Gly Gln Pro Gly Asn Glu Gly Gln Pro Gly Gln Pro
                325                 330                 335

Gly Gln Asn Gly Gln Pro Gly Glu Pro Gly Ser Asn Gly Pro Gln Gly
            340                 345                 350

Ser Gln Gly Asn Pro Gly Lys Asn Gly Gln Pro Gly Ser Pro Gly Ser
        355                 360                 365

Gln Gly Ser Pro Gly Asn Gln Gly Ser Pro Gly Gln Pro Gly Asn Pro
    370                 375                 380

Gly Gln Pro Gly Glu Gln Gly Lys Pro Gly Asn Gln Gly Pro Ala Gly
385                 390                 395                 400

Glu Pro Gly Asn Pro Gly Ser Pro Gly Asn Gln Gly Gln Pro Gly Asn
                405                 410                 415

Lys Gly Ser Pro Gly Asn Pro Gly Gln Pro Gly Asn Glu Gly Gln Pro
            420                 425                 430

Gly Gln Pro Gly Gln Asn Gly Gln Pro Gly Glu Pro Gly Ser Asn Gly
        435                 440                 445
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Pro Gln Gly Ser Gln Gly Asn Pro Gly Lys Asn Gly Gln Pro Gly Ser
450 455 460

Pro Gly Ser Gln Gly Ser Pro Gly Asn Gln Gly Ser Pro Gly Gln Pro
465 470 475 480

Gly Asn Pro Gly Gln Pro Gly Glu Gln Gly Lys Pro Gly Asn Gln Gly
485 490 495

Pro Ala Gly Glu Pro Gly Asn Pro Gly Ser Pro Gly Asn Gln Gly Gln
500 505 510

Pro Gly Asn Lys Gly Ser Pro Gly Asn Pro Gly Gln Pro Gly Asn Glu
515 520 525

Gly Gln Pro Gly Gln Pro Gly Gln Asn Gly Gln Pro Gly Glu Pro Gly
530 535 540

Ser Asn Gly Pro Gln Gly Ser Gln Gly Asn Pro Gly Lys Asn Gly Gln
545 550 555 560

Pro Gly Ser Pro Gly Ser Gln Gly Ser Pro Gly Asn Gln Gly Ser Pro
565 570 575

Gly Gln Pro Gly Asn Pro Gly Gln Pro Gly Glu Gln Gly Lys Pro Gly
580 585 590

Asn Gln Gly Pro Ala Gly Gly
595

<210> 24

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> PRIMER for PCR

<400> 24
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<210> 25

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> PRIMER for PCR

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gcaaatggca ttctgacatc c 21